ABSTRACT

Digital transmission method of the error-correcting coding type

A digital transmission method of the error-correcting coding type comprises a coding procedure before transmission and a decoding procedure for obtaining a correction of transmission errors. The said coding procedure comprises a plurality of elementary coding steps associated in parallel or in series. The decoding procedure is iterative and comprises, for each iteration, a plurality of elementary decoding steps (51, 52, 53) which correspond to the said plurality of elementary coding steps and which each generate at least one weighted output information item which can be transmitted to one or more other elementary decoding steps. According to the invention, a characteristic quantity determination step (54) calculates at least one characteristic quantity from a set of weighted output information items generated by at least one elementary decoding step (51, 52, 53 ; 83), and a decoded information quality parameter determination step (55 ; 85) determines, from the said at least one characteristic quantity and at least one configuration parameter, a decoded information quality parameter associated with a set of decoded information items corresponding to the said set of weighted output information items. The said decoded information quality parameter can be used downstream of the said decoding procedure or even within this decoding procedure.

Fig. 4